INDIA

RUBBER WORLD

NATURAL & SYNTHETIC

BILL BROTHERS PUBLISHING CORP.

386 Fourth Avenue, New York 16, N. Y.

Volume 111-112 — **October, 1944, to September, 1945**

PAGES

A

A.C. and D.C. Machines, Shaft Current in ... *D. B. Hoover* Jl 459
ACCELERATORS
Novac ... D 326
Accomplishments, Wartime, of Smaller Rubber Companies ... *A. L. Freedlander* S 728
Acetyl Peroxide Made Safe for Industry ... N 199
Acid, Dibasic, for Resins—M.D.A. ... F 578
Nitric, Service, Tank Lining for ... D 317
Actoflux ... Au 598
Adhesive, Plastic—Pliastic Cement ... O 88
Adhesives, Synthetic Rubber ... O 116
Advances in Plastics during 1944 ... *G. M. Kline* Ma 694
Rubber during 1944 ... *John W. Liska* F 557
Africa, Rubber Industry in ... O 108, D 331, Ja 496, F 610, Ma 736, Je 360, Au 636, S 759, 776
African Rubbers—Rubber Reserve Co. Circular No. 38 ... My 200
Aging Study, High-Temperature Oven ... Jl 467
Agitated Emulsions, Experiments on the Polymerization of Styrene in—The Formation of Vinyl Polymers in Emulsions and in Suspensions—III ... *S. Sigaia, W. P. Hohenstein, and H. Mark* Ja 346
Aircraft Production, Rubber Sheeting Speeds ... N 186
Akron Rubber Group ... D 326, Ap 92, Je 340
Alcohol, Polyhydric, New—Trimethylpropane ... Ja 460
ALFREY, TURNER, J. G. HENDRICKS, ROBERT M. HERSHEY, and H. MARK
Non-Sulphur Vulcanization—A Survey ... I Au 577, S 738
Aliphatic Derivatives ... N 199
ALLEN, PAUL J., SAM R. HOOVER, J. J. WILLAMAN, JONATHAN W. WHITE, JR., JOSEPH NAGHSKI
Improving Guayule Rubber by Shrub Retting ... F 570
Allen, Robert G. ... *Portrait* My 210
AMBERG, LYLE O., AND JOHN H. ELLIOTT
Rosin and Terpene Chemicals in GR-S Tire Tread Compounds ... Je 309
America, Latin, Rubber Industry in ... O 104, N 218, 222, Ja 478, 482, 496, Ma 714, Je 318, 337, Au 630
South, Rubber Industry in ... O 104, N 218, 222, D 338, Ja 478, 482, 496, Jl 451, 454, Au 630
American Association of Textile Chemists & Colorists ... N 194
Technologists ... Je 327
AMERICAN CHEMICAL SOCIETY
Dewey President-Elect ... Ja 451
DIVISION OF RUBBER CHEMISTRY
Election of Officers ... N 195
Meeting, Spring, 1945, Cancelled ... F 577
Meetings ... F 575
September, 1944 ... O 74
Abstracts of Papers ... O 77
SECTIONS
Cleveland ... Ma 704
New York ... D 328
North Jersey ... Ma 703, Je 326
Northeastern ... F 577
St. Louis ... Ma 704, Ap 78
Southeastern Pennsylvania ... Ma 704
Southern California ... Ap 77
War Production Conference ... My 198
AMERICAN
Institute of Chemical Engineers ... D 325, F 575
Chemists ... Ma 703, Ja 325
Management Association ... F 582
Physical Society ... Jl 467
AMERICAN
Society for Testing Materials ... N 196, F 575, My 199, Au 599
Standards and Revisions, New ... Ap 77
of Mechanical Engineers ... N 199, Ja 448, F 577
Providence Section ... F 578
Welding Society ... Jl 465
Amon, Fred H. ... *Portrait and Sketch* Ja 463
ANDREWS, R. D., R. B. MESROBIAN, and A. V. TOBOLSKY
Creep and Relaxation in Rubber Products at Elevated Temperatures ... My 181
Appleby, Robert B. ... *Portrait* Ma 713
Application Patents ... O 94, N 211, D 341, Ja 468, F 594, Ma 719, Ap 94, My 216, Je 344, Jl 484, Au 616, S 764
Applications, New, for Hycar ... S 741
Arc Welded Rubber Plant Equipment ... Je 316
Argentina, Rubber Trade in ... O 104, Ja 496, Au 634
Aromatic Hydrocarbon Compounding Materials for GR-S ... *Lyle M. Geiger* D 312
Association of American Battery Manufacturers, Inc., The ... D 340
Atomic Bomb, Helped with ... S 742
Australia, Rubber Industry in ... Ap 106, My 206, Au 593

B

Bacon, Wendell E. ... *Portrait* Ma 712
Baty, J. A. ... *Portrait* Ma 715
BEKKEDAHL, NORMAN
Rubber Research in Tropical Brazil ... Jl 451
Belgium, Rubber Trade in ... S 778
Bernstein, W. ... *Portrait* O 78
Bibliography ... O 111, N 229, D 350, Ja 487, F 616, Ma 738, Ap 111, My 235, Je 364, Jl 502, Au 641, S 788
Bolton, Elmer K. ... *Portrait* F 575
BOOK REVIEWS
"*A Borracha no Brazil*," First and Second Series ... *Amando Mendes* Ap 108
"A.S.T.M. Standards, Part III, Non-Metallic Materials," *American Society for Testing Materials* ... Jl 500
"Annual Report of the Progress of Rubber Technology," Volume VII ... *Edited by T. J. Drakeley* Ma 737
"Autumn Leaves" ... *P. W. Litchfield* Au 638
"Chemical Engineering Nomographs" ... *Dale S. Davis* N 226
"Formulary, The," Volume 7 ... *Edited by H. Bennett* S 785
"Colloid Chemistry," Volume V ... *Edited by Jerome Alexander* Jl 500
"Commercial Methods of Analysis" ... *Foster D. Snell and Frank M. Biffer* Ja 484
"Cumulative Index for Volumes I-VI of 'The Chemical Formulary'" ... *H. Bennett* N 226
"Design of Manufacturing Enterprises, The" ... *Walter Rautenstrauch* Ja 484
"Development and Status of Carbon Black" ... *Isaac Drogin* My 231
"Dictionary of Engineering and Machine Shop Terms" ... *A. H. Sandy* Ma 737
"Fats and Oils" ... *H. G. Kirschenbauer* F 614
"Oils—Detergents" ... O 109
"Formaldehyde" ... *J. Frederic Walker* F 613
"Future Economic Policy of the United States, The" ... *Wm. Adams Brown, Jr.* N 226
"of Industrial Research," *Standard Oil Development Co.* ... Au 638
"Here Comes Tomorrow" ... *A. W. Zelomek* My 231
"History of Rubber Regulations, 1934-1943, The" ... *Edited by Sir Andrew McFadyean* D 356
BOOK REVIEWS
"Illustrated Technical Dictionary" ... *Edited by Maxim Newmark* O 109
"1944 SAE Handbook" ... *Society of Automotive Engineers, Inc.* N 226
"Oxy-Acetylene Handbook, The" ... Ja 484
"Patent Digest Service, Resins—Rubbers—Plastics" ... *Edited by H. Mark and F. S. Proskauer* Jl 501
"Plastic Horizons" ... *B. H. Weil and Victor J. Anhorn* D 356
"Plastics" ... *H. Ronald Fleck* My 232
"Preparation of Plantation Rubber in Ceylon," Revised Edition ... *Rubber Research Scheme (Ceylon)* D 356
"Production, Jobs and Taxes" ... *Harold M. Groves* O 109
"Russ's Bus" ... *Russell A. Byrd* Au 639
"Science in Progress," Fourth Series ... *Edited by Geo. A. Baitsell* S 786
"Seeing the Invisible" ... *Gessner G. Hawley* F 613
"Synthetic Rubber from Alcohol" ... *Anselm Talalay and Michael Magat* S 785
"Technical Data on Plastics" ... *Plastics Materials Manufacturers Association* Au 638
"Uses and Applications of Chemicals and Related Materials," Volume II ... *Edited and Compiled by Thomas C. Gregory* D 357
"Varnish Constituents" ... *H. W. Chatfield* F 613
"Vocabulario Amazonico" ... *Amando Mendes* Ap 108
Borneo, Rubber Trade in ... S 774
Boston Rubber Group ... N 195, Ja 451, My 187, Je 341, Au 598
Brazil, Rubber Trade in ... O 106, N 222, Ja 478, Jl 454, Au 635
Tropical, Rubber Research in ... *Norman Bekkedahl* Jl 451
BRICE, B. A., AND M. J. COPLEY, R. T. WHITTENBERGER
Distribution of Rubber in *Cryptostegia* as a Factor in Its Recovery ... Je 319
Brothers, John E. ... *Portrait* N 204
Brown, Owen, Jr. ... *Portrait* Jl 482
Budding Method, Improved ... Je 318
Buffalo Rubber Group ... O 79
Burma, Rubber Trade in ... Ap 104, S 776
Business, Which Is the Better Form of Doing: Partnership or Corporation? ... Je 317
Butyl, *see Synthetic Rubbers*
Butyral, Polyvinyl, Postwar Uses for ... *D. S. Plumb* S 741

C

Cable and Wire Use, Supplement on GR-S for—Specifications for GR-S ... Ja 446
Calendar of Coming Events ... O 81, N 201, D 330, Ja 460, F 578, Ma 724, Ap 100, My 200, Je 332, Au 599, S 742
Calendering and Extrusion of Plastics ... Au 596
Canada, Rubber Trade in ... O 89, N 209, Ja 464, F 592, Ma 718, My 215, Je 341, Jl 482, Au 615, S 761
CARBON BLACK
Channel Blacks in Rubber and GR-S ... *R. H. Eagles and C. A. Carlton* Ma 693
Loadings, Effect of—The Compounding of Guayule Rubbers ... *Frederick E. Clark and Wilfred F. L. Place* Ap 57
CARLTON, C. A., R. H. EAGLES AND
Channel Blacks in Rubber and GR-S ... *Ma* 693
Castilloa, and *Cryptostegia* Latices, Studies of ... *Hevea* ... *William Seifriz* Au 587, S 729
Cement, Plastic—Plastic Adhesive ... O 88
Shoe Soling, Synthetic Rubber—249X3 ... Jl 480
Cements—Pliobond ... D 339
Synthetic Rubber ... O 116
Ceylon, Rubber Trade in ... Ja 480, F 611, Ap 102, S 770

Ja=Jan.; F=Feb.: Ma=Mar.: Ap=April; My=May: Je=June; Jl=July; Au=August; S=Sept.: O=Oct.: N=Nov.; D=Dec.

PAGES

CHANEY, N. K., S. G. TREPP, A. L. WARD AND
Compression-Tear Test for Susceptibility to Road Cracking of Synthetics.....O 63
Channel Blacks in Rubber and GR-S..*R. H. Eagles and C. A. Carlton* Ma 693
Chemical Institute of Canada..N 196, Ja 463, My 200, Jl 465
Patents..O 96, N 212, D 342, Ja 470, F 596, Ma 720, Ap 96, My 218, Je 344, Jl 486, Au 618, S 765
Chemicals, Rosin and Terpene, in GR-S Tire Tread Compounds..*Lyle O. Amberg and John H. Elliott* Je 309
Rubber, in Postwar.....Ja 441
Chemigum Type 100 Latex.....D 339
Chicago Rubber Group..O 78, 79, N 196, D 326, Ja 451, My 198, Je 328 S 741
Chile, Rubber Trade in.....Ja 483
Chlorinated Synthetic Rubber—Chlorinated Isopol .....D 326
Circulars, Rubber Reserve Co...D 324, Ja 446, F 577, My 200, Je 327, Jl 466 S 741
CLARK, FREDERICK E., AND WILFRED F. L. PLACE
Compounding of Guayule Rubbers, The —Effect of Carbon Black Loadings..Ap 67
James F. .....*Portrait* O 81
WPB Rubber Bureau 1944 Year-End Report .....My 191
Clay, Rubber, Consumption Drops.....N 177
Coated Fabrics, Gas Permeability of.....O 72
Glass .....O 88
Coating, Plastic Nylon Wire.....N 199
Rubberized Industrial—Nukem Sealtex..Au 599
Coatings, Plastic, for Fabrics, The Processing of.....*E. G. Hamway* S 743
Cohan, Leonard H.....*Portrait* O 84
Cold Compression Sets of Natural and Synthetic Vulcanizates..*Ross E. Morris, Joseph W. Hollister, and Paul A. Mallard* Jl 455
Collyer, John .....*Portrait* F 559
Raw Material Outlook in the Rubber Industry .....F 559
Colombia, Rubber Trade in..N 218, D 338, Ja 482, Au 630
Commodity Exchange, Inc., Elections.....Ma 701
Companies, Smaller Rubber, Wartime Accomplishments of....*A. L. Freedlander* S 728
Compound, Molding, Improved—Dipex....Je 327
COMPOUNDING
Ingredients Prices..O 100, N 236, D 340, Ja 492, F 578, Ma 742, My 238, Jl 506, Au 642, S 792
Materials, Aromatic Hydrocarbon, for GR-S *Lyle M. Geiger* D 312
of Gayule Rubbers, The—Effect of Carbon Black Loadings..*Frederick E. Clark and Wilfred F. L. Place* Ap 67
Compounds, GR-S Tire Tread, Rosin and Terpene Chemicals in..*Lyle O. Amberg and John H. Elliott* Je 309
Hard Rubber, Durez Resin for.....Je 338
Compression Sets, Cold, of Natural and Synthetic Vulcanizates, The..*Ross E. Morris, Joseph W. Hollister, and Paul A. Mallard* Jl 455
Tear Test for Susceptibility to Road Cracking of Synthetics..*S. G. Trepp, A. L. Ward, and N. K. Chaney* O 63
Consumption, Rubber Clay, Drops.....N 177
Contact Laminating .....Au 596
Conversion, Lower, for GR-S—Rubber Reserve Circular .....S 741
COPLEY, M. J., R. T. WHITTENBERGER, AND B. A. BRICE
Distribution of Rubber in *Cryptostegia* as a Factor in Its Recovery.....Je 319
Cord, Tire, Tester in Use.....Au 599
Corning, Dow, Silicone Rubber, Silastic....S 741
Corporation, Partnership or; Which Is the Better Form of Business?.....Je 317
Costa Rica, Rubber Trade in.....Je 318
Costs
Special Report of Office of Rubber Director on the Synthetic Rubber Program *Bradley Dewey* O 67
Plant Investment and Production Costs *E. R. Gilliland and H. M. Lavender, Jr.* O 67
Appendix A: Prewar Costs of Production for Plantation Rubber..*E. G. Holt* N 187, D 318, Ja 442
Cotton Market and Fabrics..O 114, N 232, D 360, Ja 488, F 618, Ma 740, Ap 112, My 236, Je 366, Jl 504, Au 642, S 790
Cowen, Robert .....*Portrait* D 337
Cracking, Road, of Synthetics, Compression-Tear Test for Susceptibility to..*S. G. Trepp, A. L. Ward, and N. K. Chaney* O 63
Creep and Relaxation in Rubber Products at Elevated Temperatures..*R. D. Andrews, R. B. Mesrobian, and A. V. Tobolsky* My 181
Crude Rubber Prices..O 92, N 210, D 346, Ja 490, F 620, Ma 746, Ap 114, My 236, Je 366, Jl 492, Au 644, S 796
Cryptostegia, Distribution of Rubber in, as a Factor in Its Recovery..*R. T. Whittenberger, B. A. Brice, and M. J. Copley* Je 319

PAGES

Cryptostegia, Latices, Studies of *Hevea, Castilloa*, and..*William Seifriz* Au 587, S 729
Cuba, Rubber Trade in..Ma 714, My 211, Au 636
Currents, Shaft, in A.C. and D.C. Machines *D. B. Hoover* Jl 459

D

D.C. Machines, Shaft Currents in A.C. and *D. B. Hoover* Jl 459
Davis, Sam.....*Portrait* Ma 715, Ap 89
Dawes, F. L.....*Portrait* F 590
Detroit Rubber & Plastics Group, Inc...Ja 451, My 199, Je 328
Derivatives, Aliphatic .....N 199
Rubber, New .....D 339
Development Work Effective, The Parts Played by Management and the Technologist in Making Research and..*Norman A. Shepard* Jl 447
DEWEY, BRADLEY
Special Report of the Office of Rubber Director on the Synthetic Rubber Program .....O 67
Dibasic Acid for Resins—M.D.A.....F 578
Dielex—New Extender .....N 199
Alba—New Extender .....N 199
Dinsmore Talks on "Future Prospects in Rubber" .....F 576
Dipex—Improved Molding Compound.....Je 327
Distribution of Experimental GR-S Latices—Rubber Reserve Co. Circular No. 42..Jl 466
GR-M-10—Rubber Reserve Co. Circular No. 39 .....Je 327
Natural Rubber—Rubber Reserve Co. Circular No. 41.....Jl 466
Rubber in *Cryptostegia* as a Factor in Its Recovery..*R. T. Whittenberger, B. A. Brice, and M. J. Copley* Je 319
Dividends Declared..O 92, N 210, D 346, Ja 465, F 593, Ma 718, My 222, Je 343, Jl 492, Au 615, S 778
Dow Corning Silicone Rubber, Silastic....S 741
Drug Sundries.....*W. J. O'Brien, Jr.* F 561
Durez Resin for Hard Rubber Compounds..Je 338

E

EAGLES, R. H., AND C. A. CARLTON
Channel Blacks in Rubber and GR-S...Ma 693
East (U. S. A.), Rubber Trade in..O 84, N 204, D 335, Ja 459, F 586, Ma 713, Ap 87, My 210, Je 337, Jl 478, Au 610, S 756
Economic Factors in Reclaiming Synthetic Rubbers.....*John S. Plumb* Je 307
Ecuador, Rubber Trade in.....Ja 483, Au 634
EDITORIALS
Another Miracle Necessary.....Ap 74
Challenge of 1945, The.....Ja **447**
Collyer's Remarkable Job.....Au 594
Here Comes Tomorrow.....My 196
Holiday Greetings .....D 322
"It Must So Remain".....O 74
Loose Talk Means Lost War Production..F 574
More Tires Have Always Been a War Production "Must" .....D 322
New Department on Plastics, A.....Au 594
No Time to Abandon the No-Strike Pledge My 196
Non-"Selective" Service Again.....Ma 702
Rubber Balance May Be Automatic....Ma 702
Program Needs Continued Strong Leadership .....Je 325
Strikes Emphasize Need of New National Labor Policy .....Jl 462
"Selective" Military Service, A.....Ja 447
Total Victory and the New Challenge of the Postwar .....S 740
What Price International Agreements on Rubber? .....N 191
Effect of Carbon Black Loadings—The Compounding of Guayule Rubbers—*Frederick E. Clark and Wilfred F. L. Place* Ap 67
Egloff, Gustav .....*Portrait* Je 325
Egypt, Rubber Trade in.....Au 637
El Salvador, Rubber Trade in.....Ja 483
Elastic Thermoplastic Hydrocarbon Resins—Piccolastic .....D 326
Elastomers, Evaluation of Tear Resistance in, The.....*Floyd L. Graves* D 305
Electro-Chemical Society .....F 575
Electronic Vulcanization Patents Bought by Goodrich, Firestone .....Ap 78
To License Use of.....S 760
Elevated Temperatures, Equipment for Tensile Testing at..*D. R. Schen and J. W. Schade* Ap 65
Rubber Products at, Creep and Relaxation in..*R. D. Andrews, R. B. Mesrobian, and A. V. Tobolsky* My 181
ELLIOTT, JOHN H., LYLE A. AMBERG AND
Resin and Terpene Chemicals in GR-S Tire Tread Compounds .....Je 309
Elongation of GR-S, Plasticizer Improves..N 199
Emulsions and in Suspensions, The Formation of Vinyl Polymers in..*W. P. Hohenstein, S. Siggia, and H. Mark* N 173
II. Some Experiments on the Polymerization of Styrene in Emulsion.
III. Experiments on the Polymerization of Styrene in Agitated Emulsions....Ja 436

PAGES

Equipment for Tensile Testing at Elevated Temperatures..*D. R. Schen and J. W. Schade* Ap 65
Rubber Plant, Arc Welded.....Je 316
Europe, Rubber Industry in..O 108, N 220, D 352, F 604, Ma 730, My 224, Je 354, Jl 497, Au 581, 628, S 778
Evaluation of Tear Resistance in Elastomers, The.....*Floyd L. Graves* D 305
Experimental GR-S Latices, Distribution of—Rubber Reserve Co. Circular No. 42 Jl 466
EXPERIMENTS
Formation of Vinyl Polymers in Emulsions and in Suspensions..*W. P. Hohenstein, S. Siggia, and H. Mark*
II. Some Experiments on the Polymerization of Styrene in Emulsions.....N 173
III. Experiments on the Polymerization of Styrene in Agitated Emulsions...Ja 436
EXPOSITIONS
Koroscal Preview, Postwar.....S 756
Plastics .....D 324
Products Fair .....Ja 462
Power and Mechanical Engineering..O 84, N 201, Ja 459
Shoe Solings .....N 204
EXTENDERS
Dielex .....N 199
Alba .....N 199
for GR-S..*L. E. Ludwig, D. V. Sarbach, B. S. Garvey, Jr., and A. E. Juve* S 731
"3BN"—for Synthetic Rubber.....D 325
Extrusion of Plastics, Calendering and....Au 596

F

Fabrics, Coated, Gas Permeability of.....O 72
Glass, Rubber- .....O 88
Processing of Plastic Coatings for, The *E. G. Hamway* S 743
Factor in Its Recovery, Distribution of Rubber in *Cryptostegia* as a..*R. T. Whittenberger, B. A. Brice, and M. J. Copley* Je 319
Factors Affecting Results Obtained with the Mooney Viscometer..*Rolla H. Taylor* Au 582
Economic, in Reclaiming Synthetic Rubbers *John S. Plumb* Je 307
Far East, Rubber Industry in..O 106, Ja 480, F 611, Ap 102, S 770
Fibers, Synthetic, Courses on.....S 745
55-10—Processing Aid for Rubber.....Ja 452
Financial..O 90, Ja 465, F 593, Ma 718, Je 342, Au 615, S 768
Firestone Research Laboratory, The New...Au 597
"Flexol" Plasticizer 4GO—Low Viscosity Plasticizer .....Ja 452
Formation of Vinyl Polymers in Emulsions and Suspensions, The..*W. P. Hohenstein, S. Siggia, and H. Mark*
II. Some Experiments on the Polymerization of Styrene in Emulsion.....N **173**
III. Experiments on the Polymerization of Styrene in Agitated Emulsions.....Ja 436
France, Rubber Trade in.....My 228, Au 581
Franks, O. S.....*Portrait* Ma 717
Freedlander, A. L.....*Portrait* S 728
Wartime Accomplishments of Smaller Rubber Companies.....S 728
Fritz, H. E.....*Portrait* Au 595
Fryling, Charles F .....*Portrait* My 209
Fungus Growth Preventives.....Ma 704
Future of the Rubber Industry, Some Thoughts on the.....*Theron R. Palmer* Ap 73
"Prospects in Rubber," Dinsmore Talks on F 576
Fuzon O .....Ap 78

G

GAGE, F. W.
High Hardness Water-Resistant Neoprene Stocks .....Au 590
Gamma Valerolactone (GVL)—Versatile Solvent .....Ja 452
Garvey, B. S., Jr.....*Portrait and Sketch* Ja 445
AND A. E. JUVE, L. E. LUDWIG, D. V. SARBACH
Extenders for GR-S.....S 731
Softeners for GR-S.....O 55, N 180
Gas Permeability of Coated Fabrics.....O 72
Geiger, Lyle M.....*Portrait* N 205
Aromatic Hydrocarbon Compounding Materials for GR-S.....D 312
German Synthetic Mechanical Goods.....S 723
German, Rubber Trade in..D 355, Ma 736, My 226, Je 356, S 761, 778
Gilliland, Edwin R.....*Portrait* Je 326
AND H. M. LAVENDER, JR.
Plant Investment and Production Costs—Special Report of Office of Rubber Director on the Synthetic Rubber Program .....O 67
Gilman, Max M.....*Portrait* Jl 477
GR-I, *see Synthetic Rubbers*
GR-M, *see Synthetic Rubbers*
GR-P, *see Synthetic Rubbers*
GR-S, *see Synthetic Rubbers*
GRAVES, FLOYD L.
Evaluation of Tear Resistance in Elastomers, The .....D 305

Ja=Jan.; F=Feb.; Ma=Mar.; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

PAGES

Great Britain, Rubber Trade in..D 220, D 352, F 604, Ma 730, My 224, Je 354, Jl 497
Guayule Rubber, Improving, by Shrub Retting *Jonathan W. White, Jr., Joseph Naghski, Paul J. Allen, Sam R. Hoover, and J. J. Willaman*.....F 570
Rubbers, Compounding of, The—Effect of Carbon Black Loadings..*Frederick E. Clark and Wilfred F. L. Place* Ap 67
Gum, Pine, Softener—Turgum S.....Ja 431
GVL (Gamma Valerolactone)—Versatile Solvent .....Ja 452
Gyllensvard, Eric C.....*Portrait* My 214

H

Hale, Andrew .....*Portrait* F 590
Hall, C. P.....*Portrait* Ma 715
C. R. .....*Portrait* Ma 715
HAMWAY, E. G.
Processing of Plastic Coatings for Fabrics, The .....S 743
Hard Rubber Compounds, Durez Resin for..Je 338
Hardness, High, Water-Resistant Neoprene Stocks.....*F. W. Gage* Au 590
HAUSER, ERNST A.
Morphology of Rubber Latex Particles, The Jl 461
Haynes, Charles R...*Portrait and Sketch* Ma 704
Heat Resistant Rubber Has Silicon Base...D 326
HENDRICKS, J. G., ROBERT M. HERSHEY, AND H. MARK, TURNER ALFREY
Non-Sulphur Vulcanization—A Survey—I Au 577, S 738
HERSHEY, ROBERT M., AND H. MARK, TURNER ALFREY, J. G. HENDRICKS
Non-Sulphur Vulcanization—A Survey—I Au 577, S 738
Hevea, Castilloa, and *Cryptostegia* Latices, Studies of.....*William Seifriz* Au 587, S 729
High Hardness Water-Resistant Neoprene Stocks.....*F. W. Gage* Au 590
Temperature Oven Aging Study.....Jl 467
Hoadley, Franklin R.....*Portrait* Ma 712
HOHENSTEIN, W. P., S. SIGGIA, AND H. MARK
Formation of Vinyl Polymers in Emulsions and in Suspensions, The
II. Some Experiments on the Polymerization of Styrene in Emulsion.....N 173
III. Experiments on the Polymerization of Styrene in Agitated Emulsions...Ja 436
Holland, *see Netherlands*
HOLLISTER, JOSEPH W., AND PAUL A. MALLARD, ROSS E. MORRIS
Cold Compression Sets of Natural and Synthetic Vulcanizates .....Jl 455
HOLT, EVERETT G.
Prewar Costs of Production for Plantation Rubber—Appendix A of Special Report of Office of Rubber Director on the Synthetic Rubber Program..N 187, D 318, Ja 442
Honduras, Rubber Trade in.....Ja 482
HOOVER, D. B.
Shaft Currents in A.C. and D.C. Machines Jl 459
SAM R., J. J. WILLAMAN, JONATHAN W. WHITE, JR., JOSEPH NAGHSKI, PAUL J. ALLEN
Improving Guayule Rubber by Shrub Retting .....F 570
HOSEH, M.
Recent Russian Literature on Natural and Synthetic Rubber..N 178, F 564, Ma 691, My 185, Jl 450
Hubbard, B. .....*Portrait* O 78
Hummel, R. G.....*Portrait* Ap 90
Humphreys, H. E., Jr.....*Portrait* Ja 429
Peace, Progress, and Taxes.....Ja 429
Hycar, *see Synthetic Rubbers*
Hydrocarbon, Aromatic, Compounding Material for GR-S.....*Lyle M. Geiger* D 312
Resins, Elastic Thermoplastic—Piccolastic D 326

I

Iceland, Rubber Trade in.....S 778
Improved Molding Compound—Dipex.....Je 327
Improving Guayule Rubber, by Shrub Retting *Jonathan W. White, Jr., Joseph Naghski, Paul J. Allen, Sam R. Hoover, J. J. Willaman* F 570
India, Rubber Trade in..Ja 481, F 611, Ap 106
WORLD, Statement of.....O 116
INDUSTRY
Partnership or Corporation; Which Is the Better Form of Doing Business?....Je 317
Peace, Progress, and Taxes..*H. E. Humphreys, Jr.* Ja 429
Rubber, Raw Material Outlook in the *John L. Collyer* F 559
Some Thoughts on the Future of the *Theron R. Palmer* Ap 73
Investment, Plant, and Production Costs—Special Report of Office of Rubber Director of the Synthetic Rubber Program..*E. R. Gilliland and H. M. Lavender, Jr.* O 67
IRVIN, HOWARD H.
Polyethylene .....O 65

PAGES

Isopol, Chlorinated—Chlorinated Synthetic Rubber .....D 326
Italy, Rubber Trade in..F 608, My 230, Je 336

J

JUVE, A. E., L. E. LUDWIG, D. V. SARBACH, B. S. GARVEY, JR., AND
Extenders for GR-S.....S 731
Softeners for GR-S.....O 55, N 180

K

Kessler, Armin G.....*Portrait* Je 340
KILBOURNE, F. L.
Reclaimed Synthetic Rubber.....Ma 687
KLINE, G. M.
Advances in Plastics during 1944.....Ma 694
Kratz, George D.....*Potrtrait* Ja 463
Kyrides, Lucas P.....*Portrait* Ap 78

L

Laboratory, The New Firestone Research..Au 597
Lambert, E. P.....*Portrait* Jl 476
Laminating, Contact .....Au 596
LATEX
GR-S, New Modified.....Ma 714
X-160 .....Jl 467
182 .....Jl 467
205 .....Jl 467
Latices, Experimental, Distribution of—Rubber Reserve Co. Circular No. 42..Jl 466
Specification for .....Ma 700
Hevea, Castilloa, and *Cryptostegia* Latices, Studies of..*William Seifriz* Au 587, S 729
Particles, Rubber, The Morphology of *Ernst A. Hauser* Jl 461
Synthetic, Reenforcer—Marmix .....Ja 452
Rubber—Chemigum Type 100.....D 339
Latices, GR-S, Experimental, Distribution of—Rubber Reserve Co. Circular No. 42 .....Jl 466
Specification for .....Ma 700
Hevea, Castilloa, and *Cryptostegia,* Studies of.....*William Seifriz* Au 587 S 729
Latin America, Rubber Industry in..O 104, N 218, 222, Ja 478, 482, 496, Ma 714, Je 318, 337, Au 630
LAVENDER, H. M., JR., AND E. R. GILLILAND
Plant Investment and Production Costs—Special Report of Office of Rubber Director on the Synthetic Rubber Program .....O 67
Le Beau, D. S.....*Portrait* Au 614
Leaks, Testing Life Suits for.....S 745
Liberia, Rubber Trade in.....D 331
Life Suits for Leaks, Testing.....S 745
Light-Colored Synthetics, New Softener for—Para Lene-W .....Ap 92
Lining, Tank, for Nitric Acid Service.....D 317
Liquid Silicones .....O 62
LISKA, JOHN W.
Advances in Rubber during 1944.....F 566
Litchfield, P. W.....*Portrait* Ma 717
Literature, Recent Russian, on Natural and Synthetic Rubber..*M. Hoseh* N 178, F 564, Ma 691, My 185, Jl 450
Loadings, Carbon Black, Effect of—The Compounding of Guayule Rubbers..*Frederick E. Clark and Wilfred F. L. Place* Ap 67
Los Angeles Rubber Group, Inc...O 79, N 194, D 325, Ja 452, My 198, S 742
Low Viscosity Plasticizer—"Flexol" Plasticizer 4GO .....Ja 452
Lower Conversion for GR-S—Rubber Reserve Circular .....S 741
Luaces, E. L.....*Portrait* Je 325
LUDWIG, L. E., D. V. SARBACH, B. S. GARVEY, JR., AND A. E. JUVE
Extenders for GR-S.....S 731
Softeners for GR-S.....O 55, N 180

M

M.D.A.—Dibasic Acid for Resins.....F 578
Machinery Patents..O 100, N 214, D 346, Ja 474, F 598, Ma 722, Ap 98, My 220, Je 348, Jl 492, Au 622, S 768
Machines, A.C. and D.C., Shaft Currents in .....*D. B. Hoover* Jl 450
MACHINES AND APPLIANCES, NEW
Abraser, Taber .....Je 350
Analysis Apparatus, Water.....F 602
Cabinet, Cold, Vari-Temp.....S 784
Calender Features Improved Roll Adjustment .....N 216
Filtration Process .....F 600
Generator for Dielectric Heating.....O 102
Guide, Web, New Automatic.....S 784
Marking Unit, Automatic, New.....Je 352
Mixing Machines for Rubber Stocks....O 102
Plating, Copper Wire, Machine.....N 218
Polarizer, Precision Scientific.....Je 308
Press, Molding .....Ma 726
Hydraulic, New Automatic.....S 783
Plastic, New .....Je 350
Preheating, Molding, and Chilling.....Je 312
Punch Device for Rubber Test Specimens..F 600

PAGES

MACHINES AND APPLIANCES, NEW
Shaver, Gasket, by General Electric.....O 102
Spectrometer, Versatile Infrared.....Ma 726
Tank, Dipping, Ethyl Cellulose.....O 108
Test Jig, Compression.....F 563
for Rubber Seal Materials.....D 350
Up-Ender Facilitates Drum Handling....D 350
Making Research and Development Work Effective, The Parts Played by Management and the Technologist in..*Norman A. Shepard* Jl 447
MALLARD, PAUL A., ROSS E. MORRIS, JOSEPH W. HOLLISTER, AND
Cold Compression Sets of Natural and Synthetic Vulcanizates, The.....Jl 455
Maly, Frank M.....*Portrait* Au 611
Management and the Technologist in Making Research and Development Work Effective, The Parts Played by..*Norman A. Shepard* Jl 447
MARK, H., TURNER ALFREY J. G. HENDRICKS, ROBERT M. HERSHEY, AND
Non-Sulphur Vulcanization—A Survey—I Au 577, S 738
MARK, H., W. P. HOHENSTEIN, S. SIGGIA, AND
Formation of Vinyl Polymers in Emulsions and in Suspensions, The
II. Some Experiments on the Polymerization of Styrene in Emulsion.....N 173
III. Experiments on the Polymerization of Styrene in Agitated Emulsions...Ja 436
MARKETS AND PRICES
Compounding Ingredients..O 100, N 236, D 340, Ja 492, F 578, Ma 742, My 238, Jl 506, Au 642, S 792
Cotton and Fabrics..O 114, N 232, D 360, Ja 488, F 618, Ma 740, Ap 112, My 236, Je 366, Jl 504, Au 642, S 790
Crude Rubber..O 92, N 210, D 346, Ja 490, F 620, Ma 746, Ap 114, My 236, Je 366, Jl 492, Au 644, S 796
Reclaimed Rubber..O 114, N 234, D 360, Ja 488, F 618, Ma 740, Ap 114, My 236, Je 368, Jl 510, Au 644, S 796
Scrap Rubber..O 114, N 232, D 360, Ja 490, F 618, Ma 746, Ap 112, My 236, Je 366, Jl 510, Au 642, S 790
Marmix—Synthetic Latex Reenforcer.....Ja 452
Material, Raw, Outlook in the Rubber Industry.....*John L. Collyer* F 559
Mechanical Goods, German Synthetic.....S 723
Parts, Synthetic Rubber, in Present and Postwar Vehicles..*Ellwood F. Riesing* Ap 59, My 186, Je 313
MESROBIAN, R. B., AND A. V. TOBOLSKY, R. D. ANDREWS
Creep and Relaxation in Rubber Products at Elevated Temperatures .....My 181
Metalam No. 140—New Packaging Material..S 745
Mexico, Rubber Trade in.....Je 337, Au 630
Meyer, C. A.....*Portrait* My 214
Midwest, Rubber Trade in..O 87, N 208, D 339, Ja 462, F 592, Ma 715, Ap 89, My 209, Je 341, Jl 475, Au 614, S 761
Molding Compounds, Improved—Dipex....Je 327
Powder, MP 610, "Thiokol".....F 578
Mooney Viscometer, Factors Affecting Results Obtained with the..*Rolla H. Taylor* Au 582
Moore, Wm. A.....*Portrait* D 338
Morphology of Rubber Latex Particles, The *Ernst A. Hauser* Jl 461
MORRIS, ROSS E., JOSEPH W. HOLLISTER, AND PAUL A. MALLARD
Cold Compression Sets of Natural and Synthetic Vulcanizates .....Jl 455
MP 610, "Thiokol" Molding Powder.....F 578

N

NAGHSKI, JOSEPH, PAUL J. ALLEN, SAM R. HOOVER, J. J. WILLAMAN, JONATHAN W. WHITE, JR.
Improving Guayule Rubber by Shrub Retting .....F 570
National Association of Waste Material Dealers .....Ja 460, My 211
Safety Council.....D 339, F 583, Ap 89, Je 341
Natural and Synthetic Rubber, Recent Russian Literature on..*M. Hoseh* N 178, F 564, Ma 691, My 185, Jl 450
Rubber, Distribution of—Rubber Reserve Co. Circular No. 41.....Jl 466
Vulcanizates, The Cold Compression Sets of..*Ross E. Morris, Joseph W. Hollister, and Paul A. Mallard* Jl 455
Neoprene, *see Synthetic Rubbers*
Netherlands, Rubber Trade in.....Je 360
India, Rubber Trade in.....N 205
New England, Rubber Trade in..O 88, N 208, D 340, Ja 463, F 591, Ma 712, My 214, Je 340, Jl 482, Au 614
Firestone Research Laboratory, The....Au 597
NEW GOODS AND SPECIALTIES
Bearing, New Plya-Seal.....Jl 494
Clamp, New Type of.....S 780
Ear Protectors, Noise Absorbing.....My 190
Footwear, Army, New.....Je 336
Gas Mask for Bandaged Heads.....D 340
Gloves, Light Industrial Rubber.....Ja 476
Synthetic Rubber .....Au 626
Goggle Has Polaroid Plastic Lens.....Ma 699
Goggles, Dustproof .....Je 337
Hose, Fire, New Synthetic Rubber.....Ap 73

Ja=Jan.; F=Feb.; Ma=Mar.; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct., N=Nov.; D=Dec.

PAGES

NEW GOODS AND SPECIALTIES
Neoprene in Use on TWA Airliners....S 780
Nozzle for Spraying Acids.....Jl 493
Plastic, New Rubber-Like.....Ma 728
Respirator for Industrial Fumes.....Ja 476
Rim, New Firestone.....D 337
Seal, Shaft, Has Synthetic Rubber Bellows Jl 493
Seals, Pressure, for Metal Slide Fastener Ja 476
Snap Lead, Cycle-Weld, for Airplane Cables Ja 476
Tape, Phosphorescent.....Au 626
Tourniquet, New Type of.....Au 626
Wire, Rubber Coated Fiberglas Insulated Au 626

NEW
Guinea, Rubber Trade in.....Ap 100
Incorporations.....O 92, F 593, Je 343
Publications..O 110, N 228, D 357, Ja 485, F 614, Ma 737, Ap 108, My 232, Je 362, Jl 501, Au 639, S 786
York Rubber Group..N 195, Ja 451, My 197, S 741
Nicaragua, Rubber Trade in.....Ja 483, Au 636
1944, Advances in Plastics during..*G. M. Kline* Ma 694
Rubber during.....*John W. Liska* F 566
Year-End Report, WPB Rubber Bureau *J. F. Clark* My 191
Non-Sulphur Vulcanization—A Survey—I *Turner Alfrey, J. G. Hendricks, Robert M. Hershey, and H. Mark* Au 577, S 735
Northern California Rubber Group..O 79, N 196, Ja 452, Je 327, Au 598, S 742
Novac—Ultra-Accelerator.....D 326
Nukem Sealtex—Rubberized Industrial Coating.....Au 559
Nylon, Plastic, Wire Coating.....N 199

O

O'BRIEN, W. J., JR
Drug Sundries.....F 561
OBITUARY
Alport, Max.....Jl 482
Anderson, Wm. A.....O 90
Barbanell, Morris.....Ap 100
Brown, Charles E.....F 593
John A.....O 89
Burrough, Horace, III.....S 762
Cadot, Ned R.....Ap 100
Carkhuff, Stacy G., Sr.....Jl 482
Chapman, George F.....N 210
Cooke, Russell Y.....N 210
Derby, Harry L., Jr.....Jl 482
Drake, Robert R.....Ja 464
Earle, Richard E.....S 762
Friedman, George.....S 763
Gammeter, Wm. F.....D 340
Hall, John.....Ma 718
Harmon, Ulrich L.....S 762
Herman, P. E.....N 210
Huff, Arthur F.....S 762
Hutchens, Mrs. Sophie.....F 593
Juve, Walter H.....Ja 464
Lowe, Owen E.....S 762
Keating, Hugh T.....Ja 464
Ketchum, Roy F.....Je 341
Kither, Wm. G.....Ja 464
Landis, Walter S.....O 90
Leonard, Ralph S.....F 593
Lyon, Walter I.....Ja 464
Mayse, H. Archibald.....Ap 100
McGown, Harry B.....Au 624
Midgley, Thomas, Jr.....D 340
Morton, Charles J.....My 242
Pennington, Andrew J.....My 242
Pfeiffer, Jacob.....S 762
Raymond, Charles B.....S 762
Renner, Frederick C.....Au 624
Roberts, George L.....My 242
Harry W.....Jl 482
Weldon.....My 242
Rupprecht, Carl H.....O 89
Sanford, Robert M.....Je 341
Sparre, Fin.....N 210
Vermilye, Wm. M.....O 89
Waldron, Wm. H.....Ma 718
Williams, C. K.....N 210
Willsey, Carl L.....Je 342
Winn, Herbert J.....Au 624
Office of Rubber Director, Special Report of, on the Synthetic Rubber Program *Bradley Dewey* O 67
Plant Investment and Production Costs *E. R. Gilliland and H. M. Lavender, Jr.* O 67
Appendix A: Prewar Costs of Production for Plantation Rubber..*Everett G. Holt* N 187, D 318, Ja 442
Ohio, Rubber Trade in..O 85, N 207, D 337, Ja 461, F 589, Ma 715, Ap 90, My 212, Je 339, Jl 476, Au 612, S 759
Oliver, Griffith F.....*Portrait* D 334
Ontario Rubber Section..N 196, Ja 452, F 578, Ma 704, Ap 79, Je 328
Organic Peroxides in the Processing of Rubber, The Role of..*Warren B. Warden* D 309, Ja 432
Outcault, Harry E.....*Portrait and Sketch* Je 343
Outlook, Raw Material, in the Rubber Industry.....*John L. Collyer* F 559
Oven Aging Study, High-Temperature.....Jl 497

P

Pacific Coast, Rubber Trade on..O 88, F 592, My 215, S 761
Packaging Material, New—Metalam No. 140..S 745
Palmer, Theron R.....*Portrait* Ap 73
Some Thoughts on the Future of the Rubber Industry.....Ap 73
Panama, Rubber Trade in.....Au 636
Para Lene-W—New Softener for Light Colored Synthetics.....Ap 92
Paraplex AL-111—Plasticizer for Neoprene..N 199
Particles, Rubber Latex, The Morphology of *Ernst A. Hauser* Jl 461
Partnership or Corporation: Which Is the Better Form of Doing Business?.....Je 317
Parts, Mechanical, Synthetic Rubber, in Present and Postwar Vehicles..*Ellwood F. Riesing* Ap 59, My 186, Je 313
Played by Management and the Technologist in Making Research and Development Work Effective..*Norman A. Shepard* Jl 447
PATENTS
Application..O 94, N 211, D 341, Ja 468, F 594, Ma 719, Ap 94, My 216, Je 344, Jl 484, Au 616, S 764
Chemical..O 96, N 212, D 342, Ja 470, F 596, Ma 720, Ap 96, My 218, Je 344, Jl 486, Au 618, S 765
Electronic Vulcanization, Bought by Goodrich, Firestone.....Ap 78
Machinery..O 100, N 214, D 346, Ja 474, F 598, Ma 722, Ap 98, My 220, Je 348, Jl 492, Au 622, S 768
Process..O 96, N 211, D 341, Ja 470, F 594, Ma 720, Ap 96, My 216, Je 344, Jl 484, Au 618, S 764
Trade Marks..O 100, D 346, Ja 474, F 598, Ma 724, Ap 100, My 222, Je 348, Jl 492, Au 624, S 768
Unclassified..O 100, N 214, D 346, Ja 474, F 598, Ma 724, Ap 100, My 222, Je 348, Au 624, S 768
Peace, Progress, and Taxes..*H. E. Humphreys, Jr.* Ja 429
Permeability, Gas, of Coated Fabrics.....O 72
Peroxide, Acetyl, Made Safe for Industry..N 199
Peroxides, Organic, in the Processing of Rubber, The Role of..*Warren B. Warden* D 309, Ja 432
Peru, Rubber Trade in.....Ja 483, Au 632
Philadelphia Rubber Group..F 578, Ap 79, Au 598
Philippine Islands, Rubber Trade on..Jl 479, S 759, 776
Piccolastic—Elastic Thermoplastic Hydrocarbon Resins.....D 326
Piccoval—Softener for GR-S and Reclaim..F 591
Pine Gum Softener—Turgum S.....Ja 431
PLACE, AND WILFRED F. L., FREDERICK E. CLARKE
Compounding of Guayule Rubbers, The—Effect of Carbon Black Loadings....Ap 67
Plant Equipment, Rubber, Arc Welded....Je 316
Investment and Production Costs—Special Report of Office of Rubber Director on the Synthetic Rubber Program..*E. R. Gilliland and H. M. Lavender, Jr.* O 67
Plantation Rubber, Prewar Costs of Production for—Appendix A to Special Report of Office of Rubber Director on the Synthetic Rubber Program..*Everett G. Holt* N 187, D 318, Ja 442
Plastic Adhesive—Pliastic Cement.....O 88
Nylon Wire Coating.....N 199
PLASTICIZERS
"Flexol" Plasticizer 4GO—Low Viscosity Plasticizer.....Ja 452
Para Lene-W.....Ap 92
Paraplex AL-111—for Neoprene.....N 199
"3 BX".....D 325
TR-11 Improves Elongation of GR-S....N 199
Plastics, Advances in, during 1944..*G. M. Kline* Ma 694
Calendering and Extrusion of.....Au 596
Coatings for Fabrics, The Processing of *E. G. Hamway* S 743
Program Institutes.....Je 327
Rubber and—United through Research..Au 595, S 743
Technology.....Au 595, S 743
Plastilock 300 Series—Synthetic Rubber...O 110
Pliastic Cement—Plastic Adhesive.....O 88
Pliobands—Cements.....D 339
Pliolite S-1—Thermoplastic Resin.....D 339
PLUMB, D. S.
Postwar Uses for Polyvinyl Butyral...S 741
John S.....*Portrait* Je 307
Economic Factors in Reclaiming Synthetic Rubbers.....Je 307
Polyethylene.....*Howard H. Irvin* O 65
Polyhydric Alcohol, New—Trimethylolpropane Ja 460
Polymerization of Styrene in Emulsions, Some Experiments on the—The Formation of Vinyl Polymers in Emulsions and in Suspensions—II..*W. P. Hohenstein, S. Siggia, and H. Mark* N 173
III. Experiments on the, in Agitated Emulsions..*S. Siggia, W. P. Hohenstein, and H. Mark* Ja 436
Polymers, Vinyl, in Emulsions and in Suspensions, The Formation of..*W. P. Hohenstein, S. Siggia, and H. Mark*
II. Some Experiments on the Polymerization of Styrene in Emulsions.....N 173
III. Experiments on the Polymerization of Styrene in Agitated Emulsions...Ja 436
Polyvinyl Butyral, Postwar Uses for..*D. S. Plumb* S 741
Portugal, Rubber Trade in.....D 355
Postwar, Rubber Chemicals in.....Ja 441
Uses for Polyvinyl Butyral..*D. S. Plumb* S 744
Powder, "Thiokol" Molding, MP.....F 578
Preventives, Fungus Growth.....Ma 704
Prewar Costs of Production for Plantation Rubber—Appendix A to Special Report of Office of Rubber Director on the Synthetic Rubber Program..*Everett G. Holt* N 187, D 318, Ja 442
Process Patents..O 96, N 211, D 341, Ja 470, F 594, Ma 720, Ap 96, My 216, Je 344,, Jl 484, Au 618, S 764
Processing Aid for Rubber—55-10.....Ja 452
of Plastic Coatings for Fabrics, The..*E. G. Hamway* S 743
Rubber, The Role of Organic Peroxides in the..*Warren B. Warden* D 309, Ja 432
PRODUCTION
Special Report of Office of Rubber Director on the Synthetic Rubber Program *Bradley Dewey* O 67
Plant Investment and Production Costs *E. R. Gilliland and H. M. Lavender, Jr.* O 67
Appendix A: Prewar Costs of Production for Plantation Rubber..*Everett G. Holt* N 187, D 318, Ja 442
Products, Rubber, at Elevated Temperatures, Creep and Relaxation in..*R. D. Andrews, R. B. Mesrobian, and A. V. Tobolsky* My 181
Program, Synthetic Rubber, Special Report of Office of Rubber Director on the..*Bradley Dewey* O 67
Plant Investment and Production Costs..*E. R. Gilliland and H. M. Lavender, Jr.* O 67
Appendix A: Prewar Costs of Production for Plantation Rubber..*Everett G. Holt* N 187, D 318, Ja 442
Progress, and Taxes, Peace..*H. E. Humphreys, Jr.* Ja 429
Publications, New..O 110, N 228, D 357, Ja 485, F 614, Ma 737, Ap 108, My 232, Je 362, Jl 501, Au 639, S 786

R

Raw Material Outlook in the Rubber Industry *John L. Collyer* F 559
Recent Russian Literature on Natural and Synthetic Rubber..*M. Hosch* N 178, F 564, Ma 691, My 185, Jl 450
RECLAIMED RUBBER
Market..O 114, N 234, D 360, Ja 488, F 618, Ma 740, Ap 114, My 236, Je 368, Jl 510, Au 644, S 796
Softener for GR-S and—Piccovol.....F 591
Synthetic Rubber.....*F. L. Kilbourne* Ma 687
Reclaiming Synthetic Rubber, Economic Factors in.....*John S. Plumb* Je 307
Recovery, Distribution of Rubber in *Cryptostegia* as a Factor in Its..*R. T. Whittenberger, B. A. Brice, and M. J. Copley* Je 319
Reenforcer, Synthetic Latex—Marmix....Ja 452
Relaxation, Creep and, in Rubber Products at Elevated Temperatures..*R. D. Andrews, R. B. Mesrobian, and A. V. Tobolsky* My 181
Report, Special, of Office of Rubber Director on the Synthetic Rubber Program *Bradley Dewey* O 67
Plant Investment and Production Costs *E. R. Gilliland and H. M. Lavender, Jr.* O 67
Appendix A: Prewar Costs of Production for Plantation Rubber..*Everett G. Holt* N 187, D 318, Ja 442
WPB Rubber Bureau 1944 Year-End..*J. F. Clark* My 191
Research and Development Work Effective, The Parts Played by Management and the Technologist in Making..*Norman A. Shepard* Jl 447
Industrial, Standard Oil Development Co. Forum on.....N 192
Laboratory, The New Firestone.....Au 597
Rubber, in Tropical Brazil..*Norman Bekkedahl* Jl 451
United through—Rubber and Plastics...Au 595
Resin, Durez, for Hard Rubber Compounds..Je 338
Thermoplastic—Pliolite S-1.....D 339
Resins, Dibasic Acid for—M.D.A.....F 578
Elastic Thermoplastic Hydrocarbon—Piccolastic.....D 326
Vibron.....My 200
Resistant, Water, Neoprene Stocks, High Hardness.....*F. W. Gage* Au 590

Ja=Jan.; F=Feb.; Ma=Mar.; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

PAGES

Results Obtained with the Mooney Viscometer, Factors Affecting...*Rolla H. Taylor* Au 582

Retting, Shrub, Improving Guayule Rubber by *Jonathan W. White, Jr., Joseph Naghski, Paul J. Allen, Sam R. Hoover, J. J. Willaman* F 570

Rhode Island Rubber Club..O 79, D 324, My 200, Au 599

Riesing, Ellwood F.....*Portrait* Ja 448
Synthetic Rubber Mechanical Parts in Present and Postwar Vehicles..Ap 59, My 186, Je 313

Rims Approved and Branded by The Tire & Rim Association, Inc..O 100, N 234, D 346, Ja 474, F 620, Ma 724, Ap 114, My 222, Je 368, Jl 492, Au 642, S 763

Road Cracking of Synthetics, Compression-Tear Test for Susceptibility to..*S. G. Trepp, A. L. Ward, and N. K. Chaney* O 63

Role of Organic Peroxides in the Processing of Rubber, The..*Warren B. Warden* D 309, Ja 432

Rosin and Terpene Chemicals in GR-S Tire Tread Compounds..*Lyle O. Amberg and John H. Elliott* Je 309

RUBBER
Advances in, during 1944..*John W. Liska* F 566
Channel Black in, and GR-S..*R. H. Eagles and C. A. Carlton* Ma 693
Chemicals in Postwar.....Ja 441
Coated Glass Fabrics .....O 88
Companies, Smaller, Wartime Accomplishments of.....*A. L. Freedlander* S 728
Cryptostegia, Distribution of, in, as a Factor in Its Recovery..*R. T. Whittenberger, B. A. Brice, and M. J. Copley* Je 319
Derivatives, New .....D 339
Director, Office of, Special Report of, on the Synthetic Rubber Program..*Bradley Dewey* O 67
Plant Investment and Production Costs *E. R. Gilliland and H. M. Lavender, Jr.* O 67
Appendix A: Prewar Costs of Production for Plantation Rubber..*Everett G. Holt* N 187, D 318, Ja 442
Guayule, Compounding of, The—Effect of Carbon Black Loadings..*Frederick E. Clark and Wilfred F. L. Place* Ap 67
Improving, by Shrub Retting..*Jonathan W. White, Jr., Joseph Naghski, Paul J. Allen, Sam R. Hoover, J. J. Willaman* F 57
Hard, Compounds, Durez Resin for.....Je 338
Heat Resistant, Has Silicon Base.....D 326
Industry, Raw Material Outlook in the *John L. Collyer* F 559
Some Thoughts on the Future of the..*Theron R. Palmer* Ap 73
Latex Particles, The Morphology of..*Ernst A. Hauser* Jl 461
Manufacturers Association, Inc..N 204, Ma 708, 713, Ap 88, Je 338, S 756
Its Purposes, Its Progress, and Its Personnel .....My 195
Natural, Distribution of—Rubber Reserve Co. Circular No. 41..... .....Jl 466

PATENTS
Application..O 96, N 211, D 341, Ja 468, F 594, Ma 719, Ap 94, My 216, Je 344, Jl 484, Au 616, S 764
Unclassified..O 100, N 214, D 346, Ja 474, F 598, Ma 724, Ap 100, My 222, Je 348, Au 624, S 768
Plant Equipment, Arc Welded.....Je 316
Plantation, Prewar Costs of Production for—Appendix A to Special Report of Office of Rubber Director on the Synthetic Rubber Program..*Everett G. Holt* N 187, D 318, Ja 442
Plastics, and—United through Research Au 595
Processing Aid for—55-10.....Ja 452
of, The Role of Organic Peroxides in the..*Warren B. Warden* D 309, Ja 432
Products at Elevated Temperatures, Creep and Relaxation in..*R. D. Andrews, R. B. Mesrobian, and A. V. Tobolsky* My 181
Reclaimers Association, Inc.....F 587
Research in Tropical Brazil..*Norman Bekkedahl* Jl 451
Reserve Co. Circulars..D 324, Ja 446, F 577, My 200, Je 327, Jl 466
Lower Conversion for GR-S.....S 741
Report on the Rubber Program—1940-1945 .....Au 607
Specification for GR-S-AC.....My 199
Sheeting Speeds Aircraft Production...N 186
Trade Association of New York, Inc..N 205, D 335
Distribution of Natural Rubber—Rubber Reserve Co. Circular No. 41.....Je 466
Rubberized Industrial Coating—Nukem Sealtex Au 599
Russia, Rubber Trade in..F 610, Ma 736, S 778
Russian Literature, Recent, on Natural and Synthetic Rubber..*M. Hoseh* N 178, F 564, Ma 691, My 185, Jl 450

PAGES

S

Sales, Zinc Oxide, for Rubber Gain in 1943 O 66
SARBACH, D. V., B. S. GARVEY, JR., AND A. E. JUVE, L. E. LUDWIG
Extenders for GR-S.....S 731
Softeners for GR-S.....O 55, N 180
SCHADE, J. W., D. R. SCHEU AND
Equipment for Tensile Testing at Elevated Temperatures .....Ap 65
Scheer, Walter E.....*Portrait* Au 610
SCHEU, D. R., AND J. W. SCHADE
Equipment for Tensile Testing at Elevated Temperatures .....Ap 65
Scheuermann, Joseph .....*Portrait* S 757
Schoenfeld, Frank .....*Portrait* Au 595
Scientific and Technical Activities..O 74, N 192, D 323, Ja 448, F 575, Ma 703, Ap 77, My 197, Je 325, Jl 475, Au 597, S 741
Scott, Miss Irene.....*Portrait* Jl 478
Scrap Rubber Market..O 114, N 232, D 360, Ja 490, F 618, Ma 746, Ap 112, My 230, Je 366, Jl 510, Au 642, S 790
Sebrell, L. B.....*Portrait* Ma 717
SEIFRIZ, WILLIAM
Studies of *Hevea, Castilloa*, and *Cryptostegia* Latices.....Au 587, S 729
Sets, Cold Compression, of Natural and Synthetic Vulcanizates, The..*Ross E. Morris, Joseph W. Hollister, and Paul A. Mallard* Jl 455
Shaft Currents in A. C. and D. C. Machines *D. B. Hoover* Jl 459
Sheeting, Rubber, Speeds Aircraft Production N 186
Shepard, Norman A.....*Portrait* Jl 447
Parts Played by Management and the Technologist in Making Research and Development Work Effective, The.....Jl 447
Sheridan, J. .....*Portrait* O 78
Shoe Soling Cement, Synthetic Rubber—249X3 Jl 480
Shrub Retting, Improving Guayule Rubber by *Jonathan W. White, Jr., Joseph Naghski, Paul J. Allen, Sam R. Hoover, J. J. Willaman* F 570
SIGGIA, S., AND H. MARK, W. P. HOHENSTEIN
Formation of Vinyl Polymers in Emulsions and in Suspensions, The
II. Some Experiments on the Polymerization of Styrene in Emulsion.....N 173
III. Experiments on the Polymerization of Styrene in Agitated Emulsions.....Ja 436
Silastic, Dow Corning Silicone Rubber....S 741
Silicon Base, Heat Resistant Rubber Has D 326
Silicone Rubber .....D 326
Silastic, Dow Corning.....S 714
Silicones, Liquid .....O 62
Smaller Rubber Companies, Wartime Accomplishments of...*A. L. Freedlander* S 728
Smith, K. D. .....*Portrait* N 208
Snyder, B. R. .....*Portrait* S 756
Societe de Chimie Industrielle.....F 575
Society of Automotive Engineers..N 207, F 576
CHEMICAL INDUSTRY SECTIONS
American.....N 199, D 325, F 575, S 741
Montreal..D 326, Ja 452, F 578, Ap 84, Je 328
Mechanical Engineers .....Ma 703
the Plastics Industry.....D 323, Au 610
Canadian Section .....F 578
Rheology .....Jl 467
Softener, New, for Light Colored Synthetics—Para Lene-W .....Ap 92
Pine Gum—Turgum S..... ...Ja 431
Softeners for GR-S..*L. E. Ludwig, D. V. Sarbach, B. S. Garvey, Jr., and A. E. Juve* O 55, N 180
and Reclaim—Piccovol.....F 591
Soling, Shoe, Cement, Synthetic Rubber—249X3 Jl 480
Solvent, Versatile—GVL (Gamma Valerolactone) Ja 452
Some Thoughts on the Future of the Rubber Industry.....*Theron R. Palmer* Ap 73
South America, Rubber Industry in..O 104, N 218, 222, D 338, Ja 478, 482, 496, Jl 451, 454, Au 630
U. S. A., Rubber Trade in..O 84, N 204, D 335, Ja 459, F 586, Ma 713, Ap 87, My 210, Je 337, Jl 468, Au 600, S 756
Spain, Rubber Trade in.....N 222
Special Report of Office of Rubber Director on the Synthetic Rubber Program *Bradley Dewey* O 67
Plant Investment and Production Costs *E. R. Gilliland and H. M. Lavender, Jr.* O 67
Appendix A: Prewar Costs of Production for Plantation Rubber..*Everett G. Holt* N 187, D 318, Ja 442
Specification for GR-S Latices.....Ma 700
Supplement on GR-S for Wire & Cable Use Ja 446
GR-S-AC .....My 199
Standards and Revisions, New A.S.T.M....Ap 77
STATISTICS
Rims Approved and Branded by The Tire & Rim Association, Inc...O 114, N 234, D 346, Ja 474, F 620, Ma 724, Ap 114, My 222, Je 368, Jl 492, Au 642, S 763

PAGES

Stocks, High Hardness Water Resistant Neoprene.....*F. W. Gage* Au 590
Studies of *Hevea, Castilloa* and *Cryptostegia* Latices.....*William Seifriz* Au 587, S 729
Study, High-Temperature Oven Aging.....Jl 467
Styrene in Emulsion, Some Experiments on the Polymerization of—The Formation of Vinyl Polymers in Emulsions and in Suspensions—II...*W. P. Hohenstein, S. Siggia, and H. Mark* N 173
III. Experiments on the Polymerization of Styrene in Agitated Emulsions..*S. Siggia, W. P. Hohenstein, and H. Mark* Ja 436
Sulphur, Non-, Vulcanization—A Survey—I *Turner Alfrey, J. G. Hendricks, Robert M. Hershey, and H. Mark* Au 577, S 738
Susceptibility to Road Cracking of Synthetics, Compression-Tear Test for..*S. G. Trepp, A. L. Ward, and N. K. Chaney* O 63
Suspensions, The Formation of Vinyl Polymers in Emulsions and in..*W. P. Hohenstein, S. Siggia, and H. Mark*
II. Some Experiments on the Polymerization of Styrene in Emulsion.....N 173
III. Experiments on the Polymerization of Styrene in Agitated Emulsions.....Ja 436
Sweden, Rubber Trade in..N 222, D 354, Je 360, Au 628
Switzerland, Rubber Trade in.....F 608, S 778
SYNTHETIC LATEX
Chemigum Type 100.....D 339
Reenforcer—Marmix .....Ja 452
Mechanical Goods, German.....S 723
RUBBERS
Adhesives .....O 116
Butyl Manufacture Streamlined.....S 742
Cement, Shoe Soling—249X3.....Jl 480
Chlorinated Chlorinated Isopol .....D 326
Cracking, Road, Compression-Tear Test for Susceptibility to, of Synthetics, *S. G. Trepp, A. L. Ward, and N. K. Chaney* O 63
Extender for—"3 BX".....D 325
German, Mechanical Goods.....S 723
GR-A—Rubber Reserve Co. circular on..D 324
GR-I—Rubber Reserve Co. Circular on..D 324
GR-M—Rubber Reserve Co. Circular on .....D 324
10—Rubber Reserve Co. Circular No. 40 on Distribution of .....Je 327
GR-S
Channel Blacks in Rubber and..*R. H. Eagles and C. A. Carlton* Ma 693
Compounding Materials, Aromatic Hydrocarbon, for.....*Lyle M. Geiger* D 312
Conversion, Lower, for.....S 741
Elongation of, Plasticizer TR-11 Improves .....N 199
Extenders for..*L. E. Ludwig, D. V. Sarbach, B. S. Garvey, Jr., and A. E. Juve* S 731
Latex, New Modified.....Ma 714
X-160 .....Jl 467
182 .....Jl 467
205 .....Jl 467
Latices, Experimental, Distribution of—Rubber Reserve Co. Circular No. 42 .....Jl 466
Specifications for .....Ma 700
Rubber Reserve Co. Circulars on..D 324, Ja 446, F 577, Ma 700, Jl 466; S 741
Softeners for..*L. E. Ludwig, D. V. Sarbach, B. S. Garvey, Jr., and A. E. Juve* O 55, N 180
and Reclaim—Piccovol .....F 591
Specification for—Supplement on, for Wire and Cable Use.....Ja 446
Tire Tread Compounds, Resin and Terpene Chemicals in..*Lyle O. Amberg and John H. Elliott* Je 309
GR-S-AC, Specification for.....My 199
Hycar, New Applications for.....S 741
Mechanical Parts in Present and Postwar Vehicles..*Ellwood F. Riesing* Ap 59, My 186, Je 313
NEOPRENE
Plasticizer for—Paraplex AL-III.....N 199
Stocks, High Hardness Water-Resistant *F. W. Gage* Au 590
Program, Special Report of Office of Rubber Director on the..*Bradley Dewey* O 67
Plant Investment and Production Costs *E. P. Gilliland and H. M. Lavender, Jr.* O 67
Appendix A: Prewar Costs of Production for Plantation Rubber..*Everett G. Holt* N 187, D 318, Ja 442
Reclaimed.....*F. L. Kilbourne* Ma 687
Reclaiming, Economic Factors in..*John S. Plumb* Je 307
Rubber Reserve Co. Circulars..D 324, Ja 446, Jl 466, S 741
Russian Literature, Recent, on Natural and...*M. Hoseh* N 178, F 564, Ma 691, My 185, Jl 450

Ja=Jan.; F=Feb.; Ma=Mar.; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

PAGES

SYNTHETIC RUBBERS
Softener for Light-Colored, New — Para Lene W ....Ap 92
"THIOKOL"
Molding Powder MP 610....F 578
Type LP-2 ....O 79
Vulcanizing Agents for—Vultacs....O 83
Vulcanizates, The Cold Compression Sets of Natural and..*Ross E. Morris, Joseph W. Hollister, and Paul A. Mallard* Jl 445

T

TAXES, Peace, Progress ..*H. E. Humphreys, Jr.* Ja 429
TAYLOR, ROLLA H.
Factors Affecting Results Obtained with the Mooney Viscometer....Au 582
TEAR, Compression-, Test for Susceptibility to Road Cracking of Synthetics..*S. G. Trepp, A. L. Ward, and N. K. Chaney* O 63
Resistance in Elastomers, The Evaluation of ....*Floyd L. Graves* D 305
Technologist in Making Research and Development Work Effective, The Parts Played by Management and the....*Norman A. Shepard* Jl 447
Temperatures, Elevated, Equipment for Tensile Testing at..*D. R. Scheu and J. W. Schade* Ap 65
Rubber Products at, Creep and Relaxation in..*R. D. Andrews, R. B. Mesrobian, and A. V. Tobolsky* My 181
High, Oven Aging Study....Jl 467
Tensile Testing at Elevated Temperatures, Equipment for..*D. R. Scheu and J. W. Schade* Ap 65
Terpene Chemicals, Rosin and, in GR-S Tire Tread Compounds..*Lyle O. Amberg and John H. Elliott* Je 309
Test, Compression-Tear, for Susceptibility to Road Cracking of Synthetics..*S. G. Trepp, A. L. Ward, and N. K. Chaney* O 63
Methods, Rubber, Altered ....F 575
Tester, Tire Cord, in Use....Au 599
Testing Life Suits for Leaks....S 745
Tensile, at Elevated Temperatures, Equipment for..*D. R. Scheu and J. W. Schade* Ap 65
Thackray, C. C....*Portrait* F 592
Thermoplastic Resins—Piccolastic ....D 326
Pliolite S-1 ....D 339
Thiokol Technical Club....N 196, Ma 703
Thomas, E. J....*Portrait* Ma 717
John W. ....*Portrait* Ma 703, Je 325
Thoughts, Some, on the Future of the Rubber Industry....*Theron R. Palmer* Ap 73
"3 BX"—Extender for Synthetic Rubber D 325
TIRES
Compression-Tear Test for Susceptibility to Road Cracking of Synthetics..*S. G. Trepp, A. L. Ward, and N. K. Chaney* O 63

PAGES

TIRES
Cord Tester in Use....Au 599
Tread Compounds, GR-S, Rosin and Terpene Chemicals in..*Lyle O. Amberg and John H. Elliott* Je 309
TOBOLSKY, A. V., R. D. ANDREWS, R. B. MESROBIAN, AND
Creep and Relaxation in Rubber Products at Elevated Temperatures ....My 181
Torrence, Maynard F...*Portrait and Sketch* Ja 466
TR-11 Plasticizer Improves Elongation of GR-S N 199
Trade Marks O 100, D 346, Ja 474, F 598, Ma 724, Ap 100, My 222, Je 344, Jl 492, Au 624, S 768
Tread Compounds, Tire, GR-S, Rosin and Terpene Chemicals in..*Lyle O. Amberg and John H. Elliott* Je 309
Trenton Chemical Society ....Je 326
Technical Society ....My 199
TREPP, S. G., A. L. WARD, AND N. K. CHANEY
Compression-Tear Test for Susceptibility to Road Cracking of Synthetics....O 63
Trichlorcumene ....N 199
Trimethylolpropane—New Polyhydric Alcohol Ja 460
Tropical Brazil, Rubber Research in..*Norman Bekkedahl* Jl 451
Turgum S—Pine Gum Softener....Ja 431
Turkey, Rubber Trade in....S 778
249X3—Synthetic Rubber Shoe Soling Cement Jl 480

U

Unclassified Patents..O 100, N 214, D 346, Ja 474, F 598, Ma 724, Ap 100, My 222, Je 344, Au 624, S 768
United States, Rubber Trade in..O 80, N 200, D 329, Ja 453, F 581, Ma 707, Ap 80, My 203, Je 331, Jl 468, Au 600, S 47
Uses, Postwar, for Polyvinyl Butyral..*D. S. Plumb* S 741

V

Vehicles, Present and Postwar, Synthetic Rubber Mechanical Parts in....*Ellwood F. Riesing* Ap 59, My 186, Je 313
Venezuela, Rubber Trade in....Ja 483, Au 636
Vibron Resins ....My 200
Vinyl Polymers in Emulsions and in Suspensions, The Formation of..*W. P. Hohenstein, S. Siggia, and H. Mark*
II. Some Experiments on the Polymerization of Styrene in Emulsion....N 173
III. Experiments on the Polymerization of Styrene in Agitated Emulsions...Ja 436
Viscometer, Mooney, Factors Affecting Results Obtained with the..*Rolla H. Taylor* Au 582

PAGES

Viscosity, Low, Plasticizer—"Flexol" Plasticizer 4GO ....Ja 452
"Vitafilm," a New Synthetic....Ma 718
Vogt, Walter W..*Portrait and Sketch* Ja 466
Vulcanizates, Natural and Synthetic, The Cold Compression Sets of..*Ross E. Morris, Joseph W. Hollister, and Paul A. Mallard* Jl 455
Vulcanization, Non-Sulphur—A Survey—I *Turner Alfrey, J. G. Heydricks, Robert M. Hershey, and H. Mark* Au 577, S 738
Patents, Electronic, Bought by Goodrich, Firestone ....Ap 78
To License Use of ....S 760
Vulcanizing Agents for Synthetic Rubbers—Vultacs ....O 83
Vultacs—Vulcanizing Agents for Synthetic Rubbers ....O 83

W

Wagner, Edward F....*Portrait* Jl 478
War Production Conference....My 198
WARD, A. L., AND N. K. CHANEY, S. G. TREPP
Compression-Tear Test for Susceptibility to Road Cracking of Synthetics....O 63
WARDEN, WARREN
Role of Organic Peroxides in the Processing of Rubber, The....D 309, Ja 432
Wartime Accomplishments of Smaller Rubber Companies....*A. L. Freedlander* S 728
Water-Resistant Neoprene Stocks, High Hardness....*F. W. Gage* Au 590
Wehmer, Fred J....*Portrait and Sketch* O 87
Welded, Arc, Rubber Plant Equipment...Je 316
Westerman, P. W....*Portrait* Ma 717
Western Ontario Chemical Association....Ja 464
WHITE, JONATHAN W., JR., JOSEPH NAGHSKI, PAUL J. ALLEN, SAM R. HOOVER, J. J. WILLIMAN
Improving Guayule Rubber by Shrub Retting ....F 570
WHITTENBERGER, R. T., B. A. BRICE, AND M. J. COPLEY
Distribution of Rubber in *Cryptostegia* as a Factor in Its Recovery....Je 319
WILLIMAN, J. J., JONATHAN W. WHITE, JR., JOSEPH NAGHSKI, PAUL J. ALLEN, SAM R. HOOVER
Improving Guayule Rubber by Shrub Retting ....F 570
Wilson, Robert S. ....*Portrait* Au 600
Wire and Cable Use, Supplement on GR-S for—Specification for GR-S....Ja 446
Coating, Plastic Nylon ....N 199
WPB Rubber Bureau 1944 Year-End Report....*J. F. Clark* My 191

Z

Zinc Oxide Sales for Rubber Gain in 1943 O 66

"BRAKE LININGS"

VOLUME I OF THE BRAKE LIBRARY — By T. R. STENBERG

A comprehensive cyclopedia of the history and construction of brake linings of all types—how to select materials and avoid failures and troubles—based on actual experience and extensive research and presented in simple and comprehensive language. 91 pages, 8½ x 11 inches, indexed.

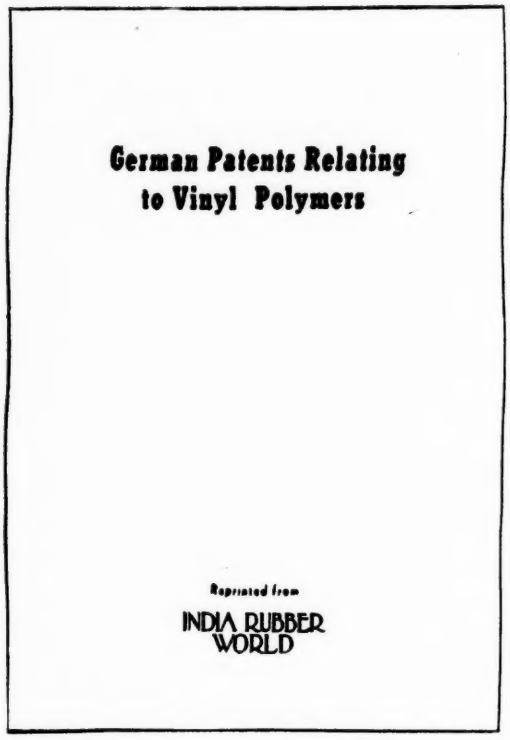
COPIES $2.00 POSTPAID.

Address

INDIA RUBBER WORLD 386 Fourth Avenue, New York 16, N. Y.

Ja=Jan.; F=Feb.; Ma=Mar.; Ap=April; My=May; Je=June; Jl=July; Au=August; S=Sept.; O=Oct.; N=Nov.; D=Dec.

NOW AVAILABLE



REPRINTS

OF THE ENTIRE SERIES
OF NINE ARTICLES ON

GERMAN PATENTS

RELATING TO

VINYL POLYMERS

By LAW VOGE and M. HOSEH

In response to numerous requests, we have reproduced the entire series of articles on this subject exactly as they appeared in INDIA RUBBER WORLD. The reprint comprises 28 pages and special cover in the same size as the original.

PRICE $1.00 PER COPY, POSTPAID
SPECIAL DISCOUNT ON QUANTITY ORDERS

SEND ORDERS TO:

INDIA RUBBER WORLD

386 FOURTH AVE. NEW YORK 16, N Y.